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Abstract of the Disclosure

The use of 3-O-deacylated monophosphoryl lipid A or monophosphoryl lipid A and derivatives and analogs thereof, in combination with a cytokine or lymphokine such as granulocyte macrophage colony stimulating factor or interleukin-12 is useful as an adjuvant combination in an antigenic composition to enhance the immune response in a vertebrate host to a selected antigen.